Science Toolkit: Grade 8 Objective 2.D.2.a

Student Handout: Science: Grade 8 Objective 2.D.2.a

Standard 2.0 Earth/Space Science

Topic D. Astronomy

Indicator 2. Identify and explain celestial phenomena using the regular and predictable motion of objects in the solar system.

Objective a. Identify and describe the relationships among the period of revolution of a planet, the length of its solar year, and its distance from the sun.

Selected Response (SR) Item

Question

Use the information and table below to answer the following.

The table below compares Earth and Saturn.

EARTH AND SATURN

Feature	Earth	Saturn
Size	Small	Giant
Amount of time in a solar day	24 hours	10.2 hours
Amount of time to complete an orbit	1 Earth year	29.5 Earth years
Tilt of axis	23.5°	27°
Composition	Composed of rock	Composed of gases

Which statement best compares Saturn and Earth?

A. Saturn is more dense than Earth.
B. Saturn has fewer lunar eclipses than Earth.
C. Saturn has a longer day and night cycle than Earth.
D. Saturn takes more time to revolve around the sun than Earth.

Correct Answer

D. Saturn takes more time to revolve around the sun than Earth.

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